

30 December 1958

MEMORANDUM FOR: Office of Logistics/Procurement Division/Contract Branch

SUBJECT: Request for Initiation of Task III under Contract ND-26
with [redacted]

1. It is requested that your office take the appropriate action to establish Task III under Contract ND-26 with [redacted]. This task will cover a research program directed toward the development of a self-powered cutting device [redacted].

2. Funds in the amount of \$5,305.00 are to be made available to the contractor for a three months period of research to be performed in accordance with the proposal attached hereto. Charges are to be made against Allotment Number 9-2502-75-301.

3. Contract ND-26 is an Agency sterile contract. Task III should also be Agency sterile. Government interest may be shown. The item per se is unclassified. Agency interest in all work and material under the contract and task is classified Secret and may be divulged only on a need-to-know basis to appropriate security approved personnel.

The Contracting Officer is requested to advise the contractor's representative in writing of these security classifications.

In the event there is any variation in classification during the preliminary phases of the work, further guidance will be provided by the project engineer, [redacted], Room 210, West Outbuilding, extension [redacted].

Chief

TSS/Engineering Division

Attachments:

TSS-913-27-1431-59

Contr'r Proposal dtd 19 Nov 58

APPROVED FOR THE OBLIGATION OF FUNDS:

Research Director

Distribution:

Orig & 1 - Addressee	1 - Comptroller
1 - TSS/TASB	1 - TSS/BOO
1 - TSS/LB	1 - TSS/OC
1 - TSS/SRB	1 - ED-187
1 - [redacted]	1 - ED Chrono

ED/P/TSS/LD/NE

DEC 27	REV 56	14/7/60	376
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In replying please address:



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November 19, 1958

Dear Sir:

In accordance with a recent discussion with your technical representative, we are submitting a proposed program of research directed toward the design and development of an experimental cutting device

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A portable device which would serve the above-indicated purpose would probably require cutting tools similar to a file or saw, of various sizes and shapes, that could be adapted to a hand-operated implement. Such a device should probably be designed so as to use a rotational hand movement applied through a cam, an eccentric, or a direct drive to transmit linear or rotary motion to a cutting tool. It is estimated that a suitable reciprocating cutting tool should have an amplitude of approximately 1/8 inch, and would probably require approximately 700 strokes to remove the appropriate amount of material involved under average service conditions. In order to be a useful tool, the implement of interest should be small, compact, lightweight, relatively quiet in operation, and inexpensive.

It has not been ascertained at this time whether such an implement would need a fixed mounting for satisfactory operation.

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We anticipate that some of the possibly applicable cutting tools would be relatively fragile and that breakage of these items in service would possibly constitute a problem if the device was hand supported and hand operated. However, in view of [REDACTED]

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[REDACTED] that might be encountered in service, it appears probable that considerable effort would be involved in designing and developing a universal mounting attachment which would also be adjustable or pivotable so as to permit maintenance of the cutting action of the tool.

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Thus, for purposes of analysis, the problems associated with the design and development of such a device have been divided into three groups: (1) the cutting tools, (2) the hand-operated device, and (3) the method of attachment and adjustment of the unit [REDACTED]. The proposed research program is described in the following.

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The objective of the proposed program would be to conduct research directed toward the design and development of an experimental cutting device, as generally described above, that could be used to [REDACTED]

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In the proposed program as currently contemplated, the effort would be directed initially [REDACTED] in an attempt to define design limits for the experimental implement of interest. Idea meetings would be conducted in order to establish necessary basic design principles for appropriate experimental cutting tools, hand-operated devices, and mounting attachments. A number of

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designs for the experimental device would probably be generated and reviewed. After appropriate consideration, the design that appeared to be most promising would be selected, and an experimental unit would be prepared. The performance of the experimental unit would be evaluated or specified by your technical representative. Any modifications which appeared to merit consideration would be investigated and appropriate changes would be made in the experimental unit, within the limits of the time and funds provided. Subsequently, the experimental unit would be provided to your technical representative for further evaluation.

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Monthly letter reports would be submitted describing the progress of the activity on the proposed program. These reports would be supplemented by discussions during periodic visits by your technical representative. At the end of the proposed research period, a summary report would be submitted describing the activity performed.

It is proposed that the contract provide for a three-month period of research, with an estimated appropriation of \$5,305, including the fixed fee. A general breakdown of the estimated costs is attached.

The proposed contract would be a period-basis research agreement, consistent with our current contractual arrangements and providing only for a fixed period of research leading toward the objectives outlined in this proposal.

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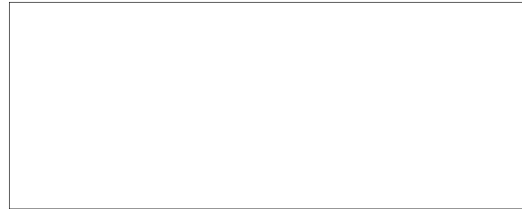
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If you should have any questions regarding our proposal,
please let us know. Any inquiries of a contractual nature may be
directed to at Extension 159.

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Very truly yours,



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EES:th

In Duplicate

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Proposal of to the U. S. Government.
For Research on **The Development of a Specialized**

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Based upon a period-basis Contract for a research period of **three months.**

(Including time for submission of all reports. The proposed contract will not provide for earlier conclusion of the research.)

ESTIMATED COSTS

We expect that the cost of this research for the period indicated above may be distributed approximately as set forth hereon, subject to the understanding that this allocation is merely an estimate, and actual costs incurred may vary from the categories shown. We have determined that these estimates are reasonable and consistent with established policies in its research for the various Government agencies, which policies are briefly discussed below and will be followed in determination of our actual costs hereunder.

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Materials & Supplies, etc.

(Including any equipment which may be purchased as necessary in performance of the research. Charges of \$25 or less are excluded from this item.)

Use of Equipment and Technical Services, Travel, and Misc.

(Including applicable costs of technical research and service divisions, and use of technical equipment, except that any undistributed balances of these accounts will be included in overhead. Cost of travel includes reasonable actual subsistence expenses and the actual cost of transportation. An allowance of up to 8¢ per mile for all necessary travel by privately owned conveyance is included in lieu of the cost of such travel.)

Salaries & Wages

(Including our predetermined accrual for vacation, holiday, and sick-leave pay, pensions, and social security.)

Type of Employee	No. of Man-Months	Estimated Cost
Supervision	1/3	
Research Engineers	2	
Lab. Assistants	1-3/4	
Steno., Clerical, Shop & Photo., etc.	1/3	
Total Salaries & Wages		

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Overhead

60 per cent of salaries and wages, as they are defined above. Provisional monthly reimbursement will be at the rate of 60 per cent of salaries and wages, as so defined, or at such other provisional rate as may from time to time be mutually agreed upon with the Government's audit representatives. This is a provisional rate for current reimbursement, which we have arrived at by negotiation with Government representatives, and it will be subject to retroactive revision to the "actual" rate agreed upon with them for each calendar year following a detailed audit for that year. The item of overhead includes general research, charges of \$25 or less for materials and supplies, and other categories of costs we customarily include in our overhead account. Cash discounts on all purchases will be credited to overhead, instead of to the amount of the purchase. Scrap of appreciable value will be credited directly to the project. All other scrap will be credited to the overhead account, in which the Government participates.)

Total Estimated Cost

Fixed Fee

\$5,305

*Please let us have your acceptance in our hands by **December 31, 1958**. **Contract Price**
Unless we extend the time, your acceptance after that date will be subject to agreement.

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